



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless LED Speaker

Test Model: BTSPK117

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





A.1 -20dB Bandwidth

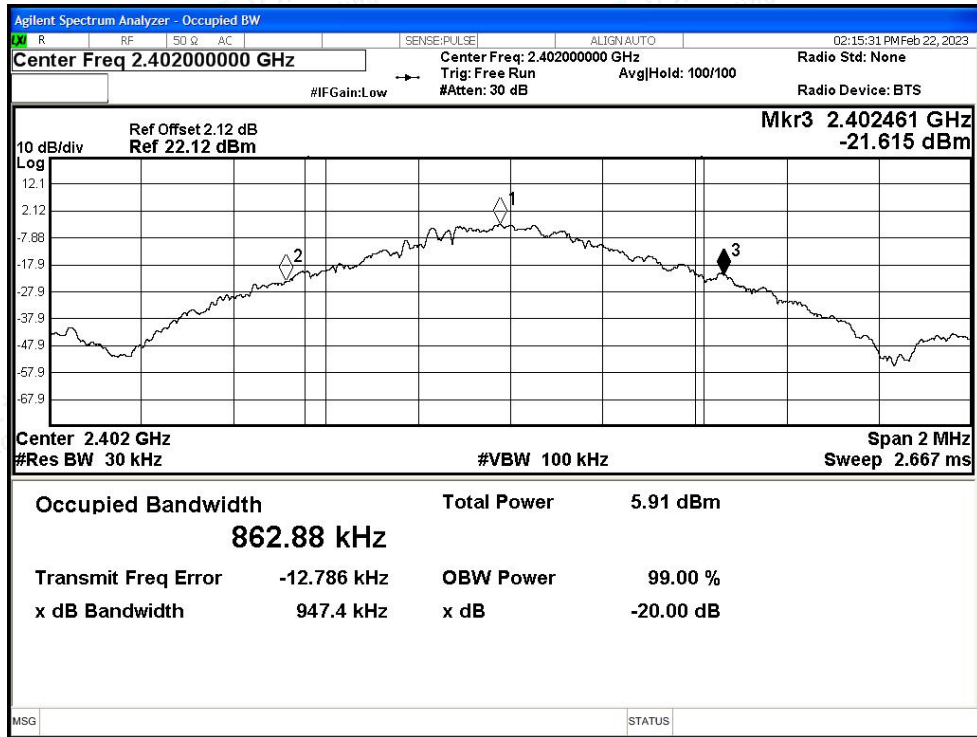
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.947	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.94	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.925	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.272	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.312	N/A	Pass



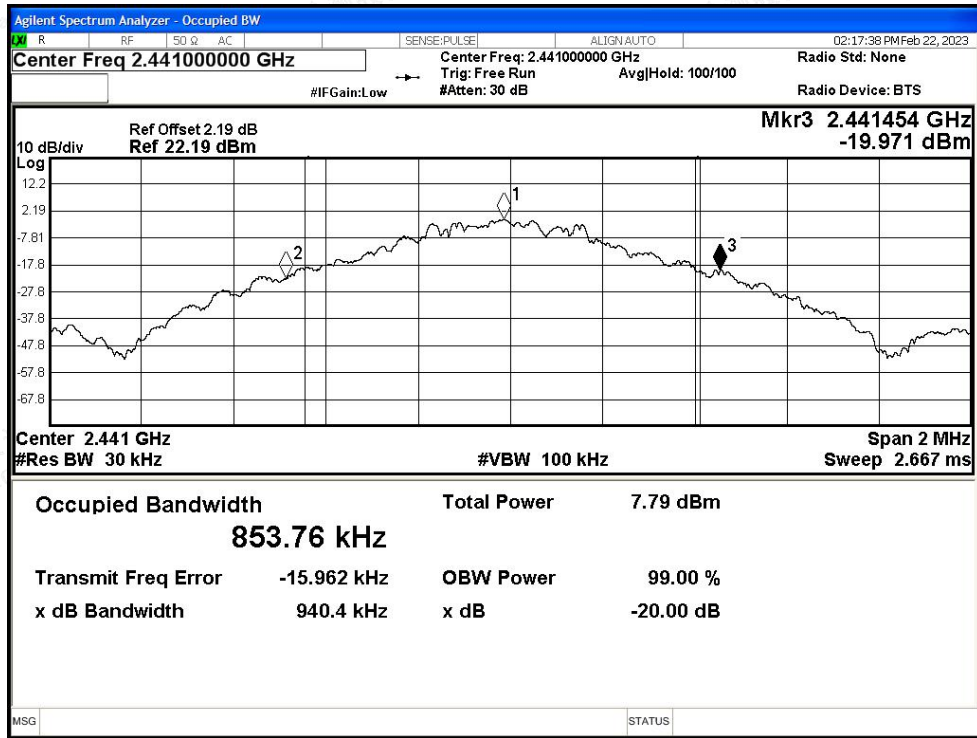


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

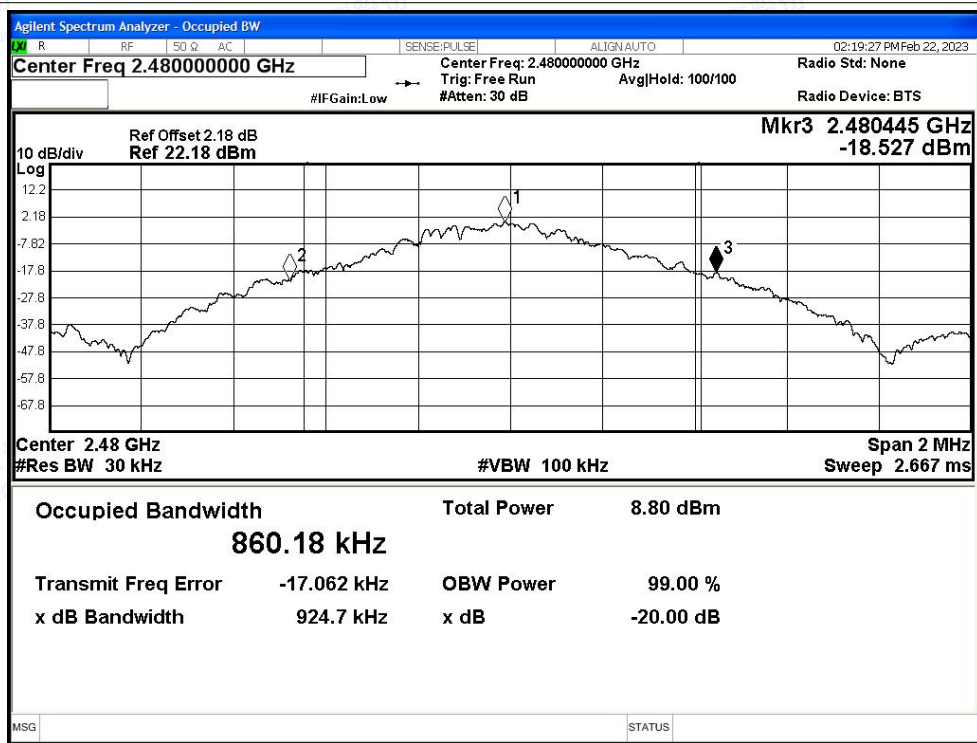


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

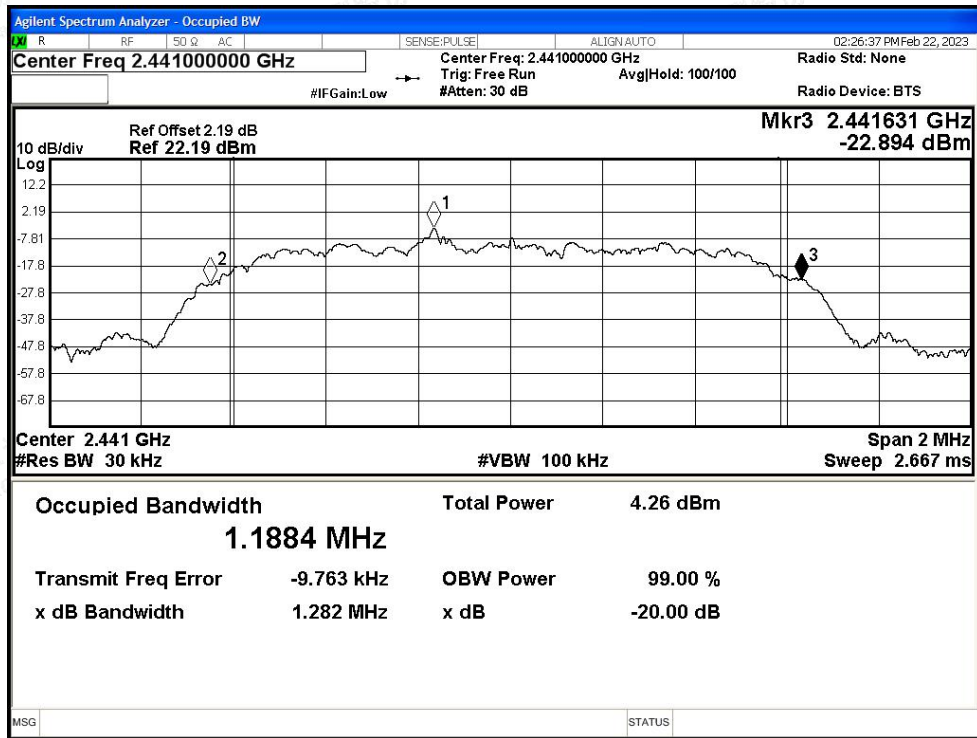


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

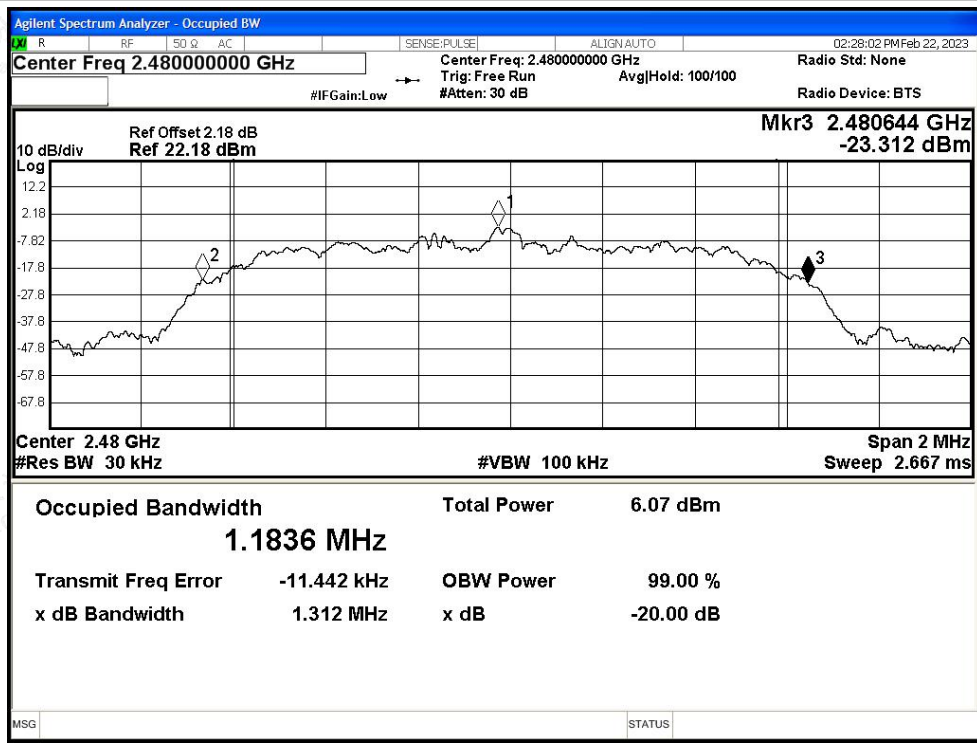




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Occupied Channel Bandwidth

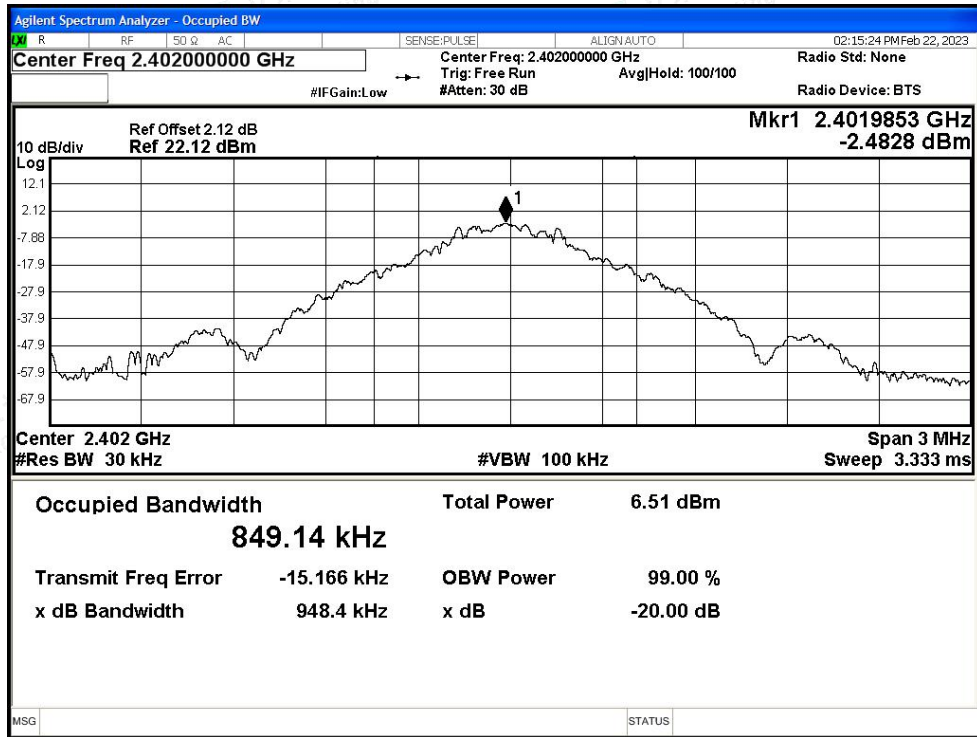
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.849
NVNT	1-DH5	2441	Ant1	0.859
NVNT	1-DH5	2480	Ant1	0.863
NVNT	2-DH5	2402	Ant1	1.183
NVNT	2-DH5	2441	Ant1	1.188
NVNT	2-DH5	2480	Ant1	1.187



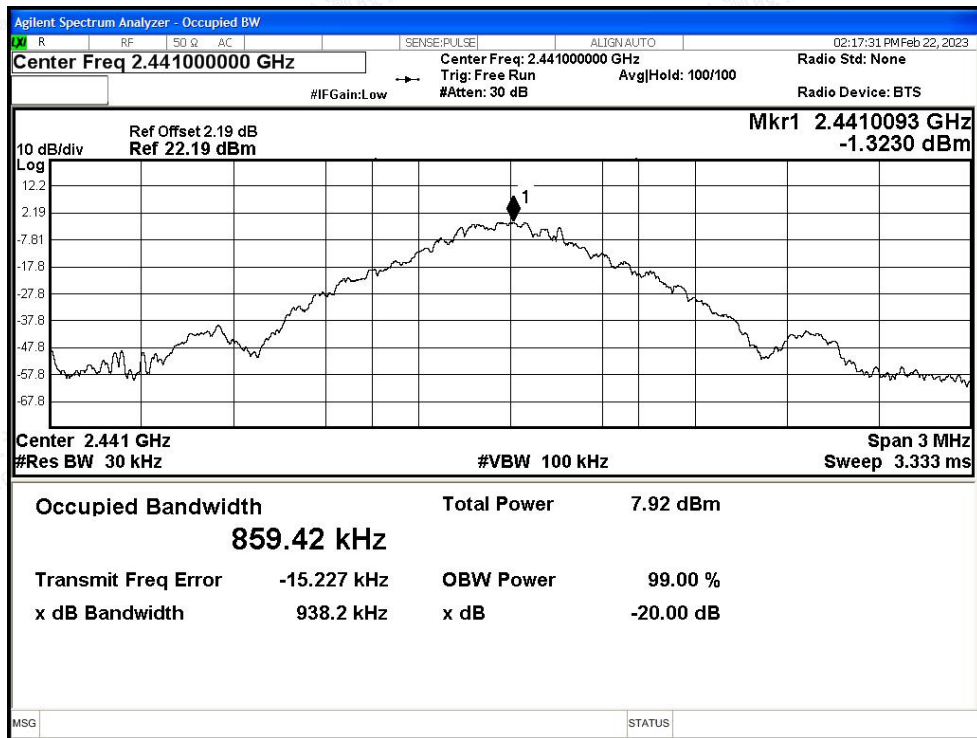


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1

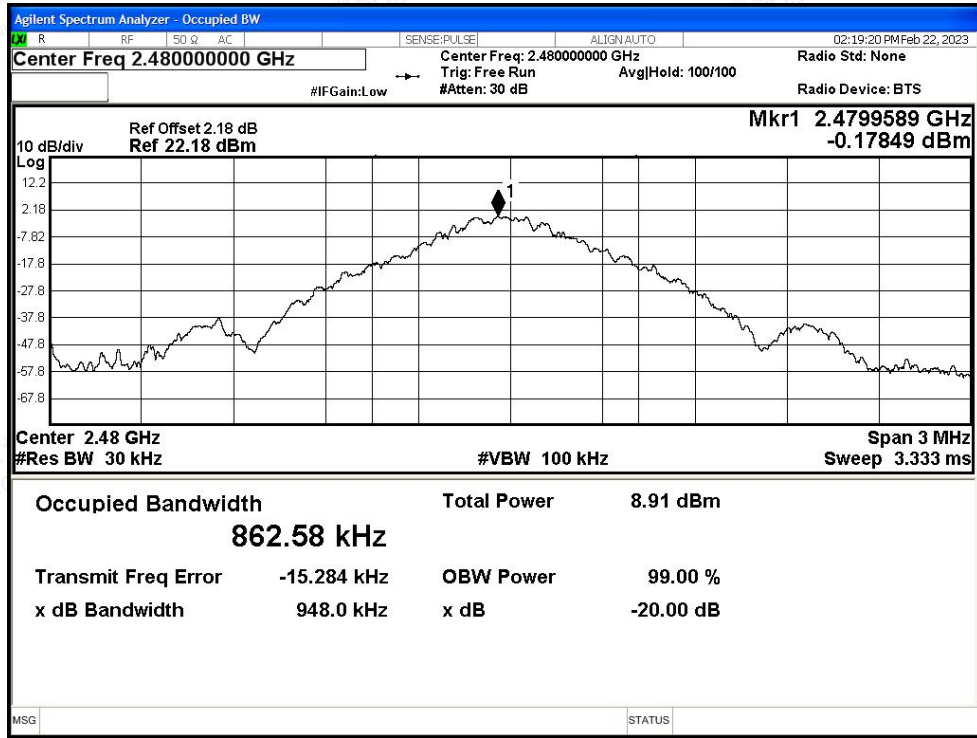


OBW NVNT 1-DH5 2441MHz Ant1

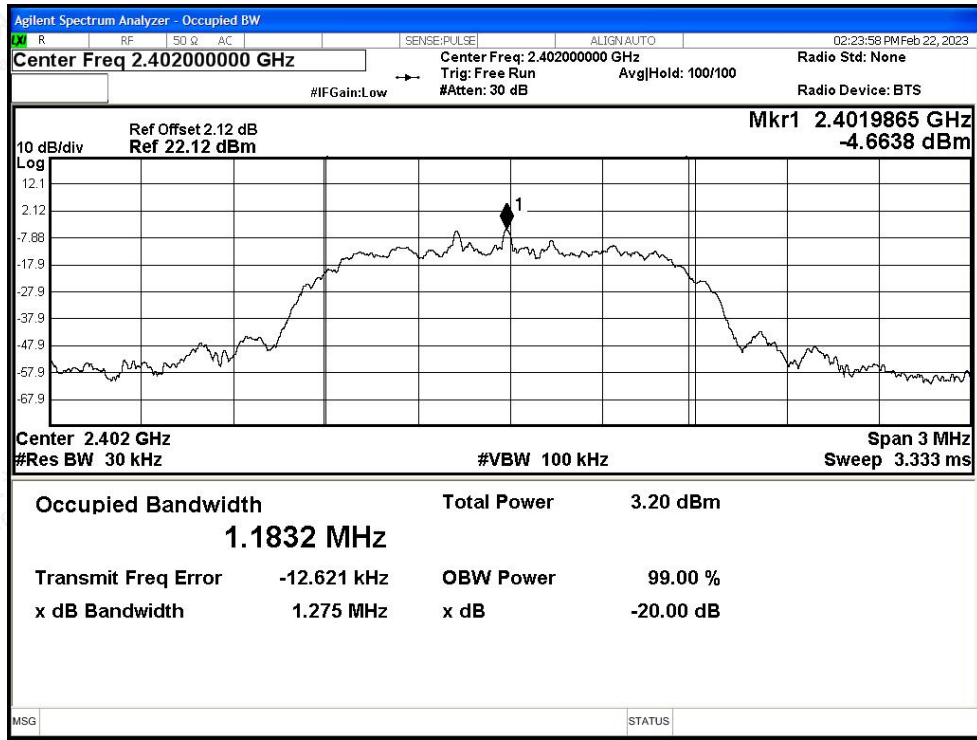




OBW NVNT 1-DH5 2480MHz Ant1

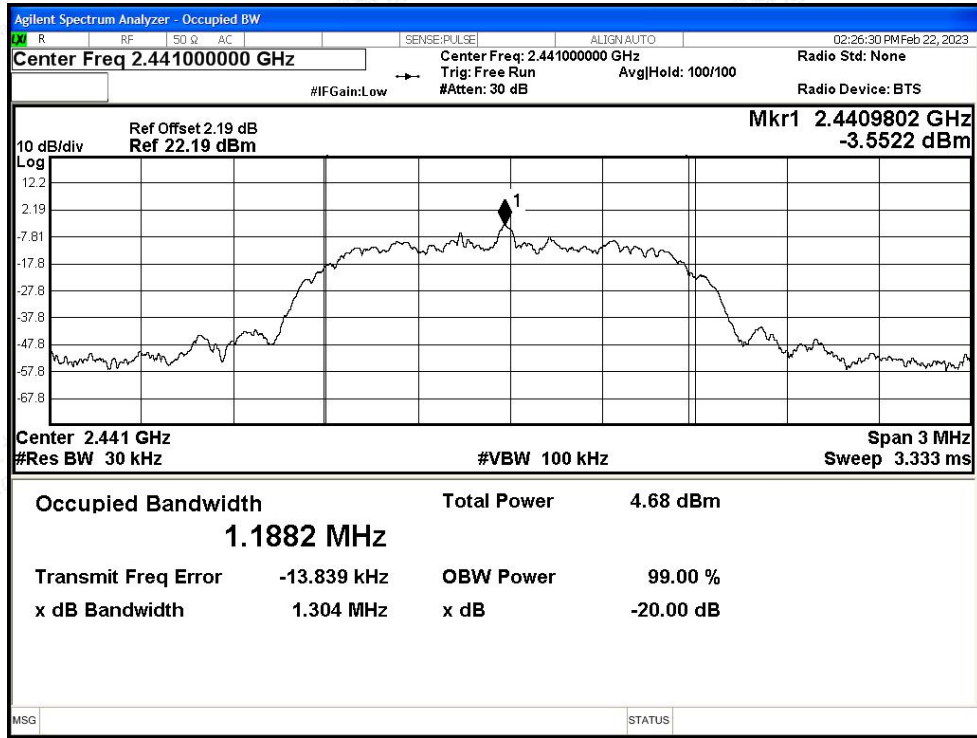


OBW NVNT 2-DH5 2402MHz Ant1

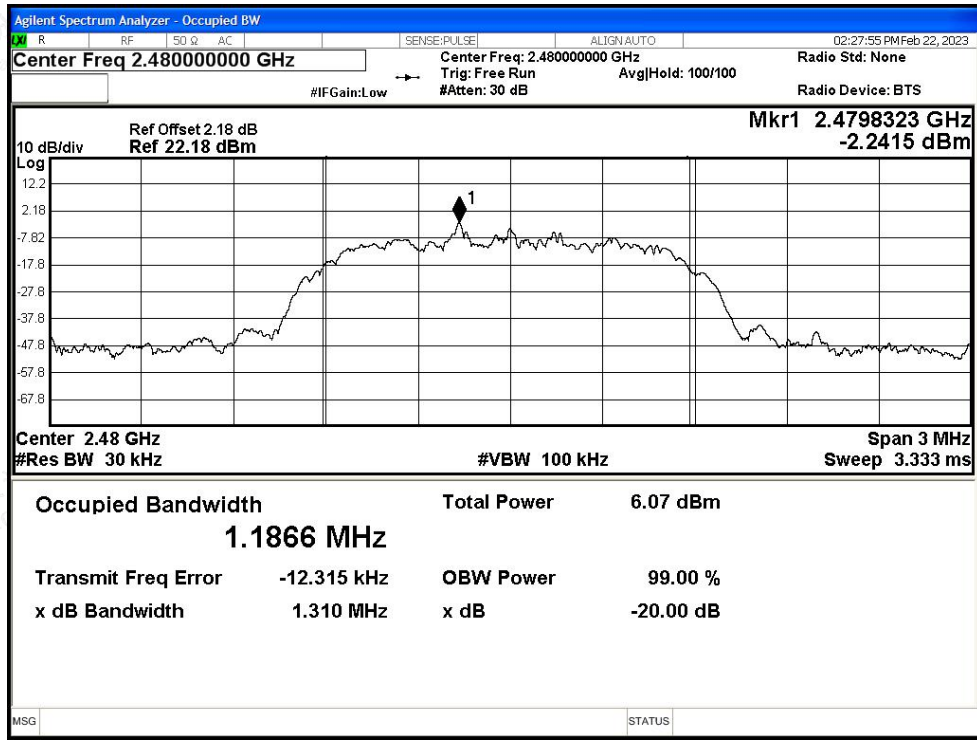




OBW NVNT 2-DH5 2441MHz Ant1



OBW NVNT 2-DH5 2480MHz Ant1





A.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.24	21	Pass
NVNT	1-DH5	2441	Ant1	1.31	21	Pass
NVNT	1-DH5	2480	Ant1	0.48	21	Pass
NVNT	2-DH5	2402	Ant1	-1.75	21	Pass
NVNT	2-DH5	2441	Ant1	-0.09	21	Pass
NVNT	2-DH5	2480	Ant1	1.25	21	Pass

EIRP

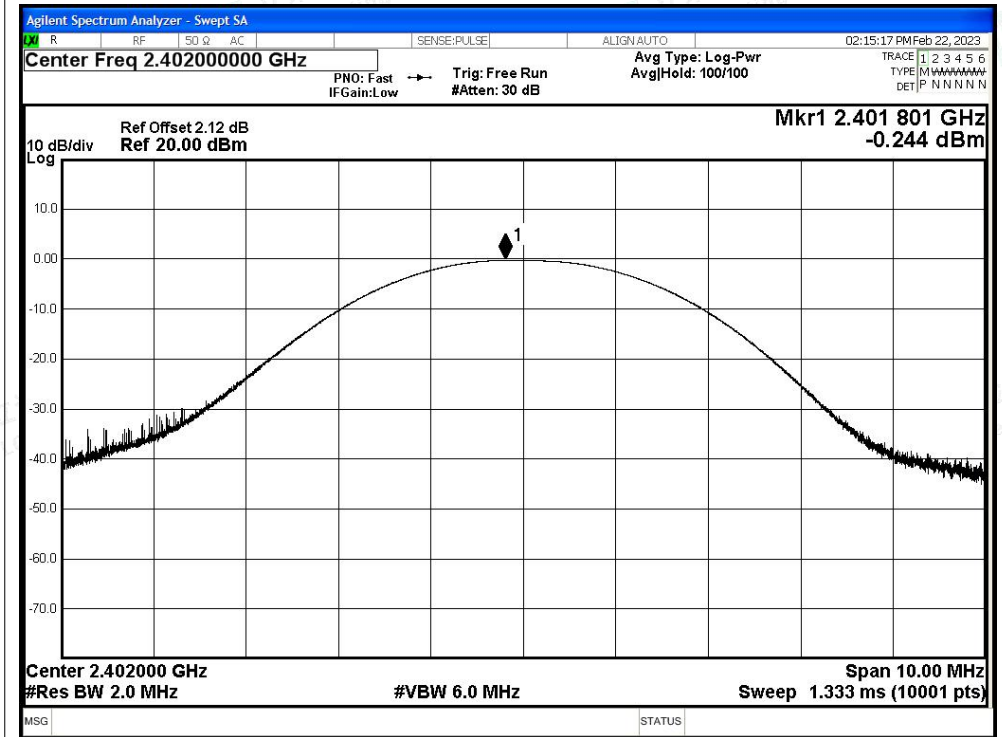
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Antenna Gain	Report EIRP Power(dBm)	Limit[dBm]	Verdict
NVNT	1-DH5	2402	Ant1	-0.24	-0.58	-0.82	36	Pass
NVNT	1-DH5	2441	Ant1	1.31	-0.58	0.73	36	Pass
NVNT	1-DH5	2480	Ant1	0.48	-0.58	-0.1	36	Pass
NVNT	2-DH5	2402	Ant1	-1.75	-0.58	-2.33	36	Pass
NVNT	2-DH5	2441	Ant1	-0.09	-0.58	-0.67	36	Pass
NVNT	2-DH5	2480	Ant1	1.25	-0.58	0.67	36	Pass



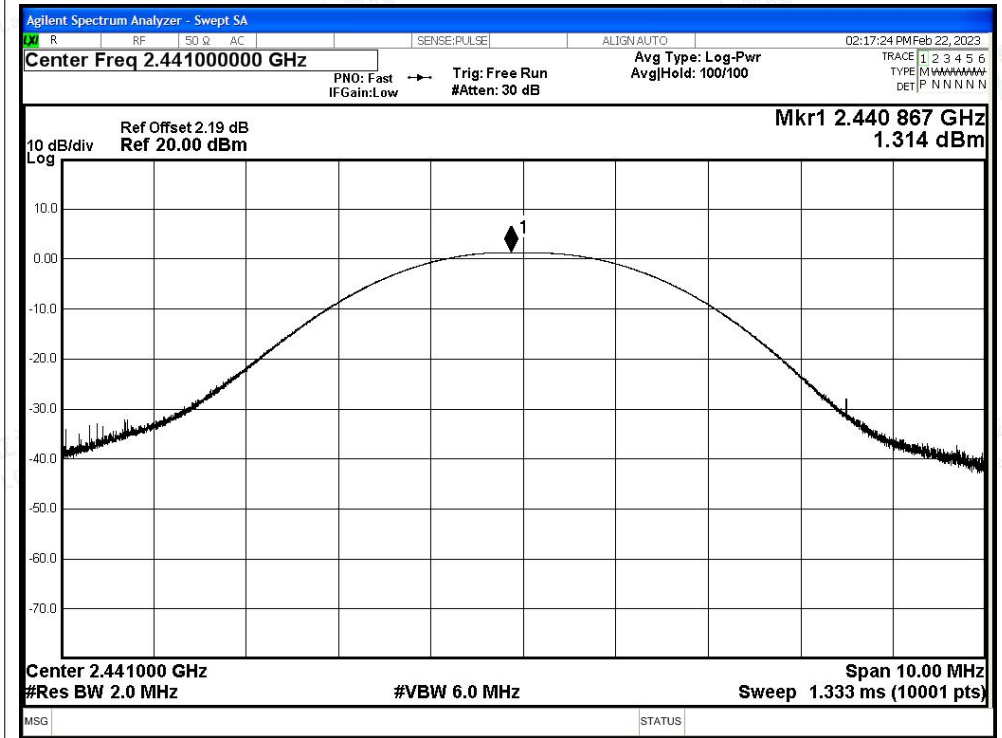


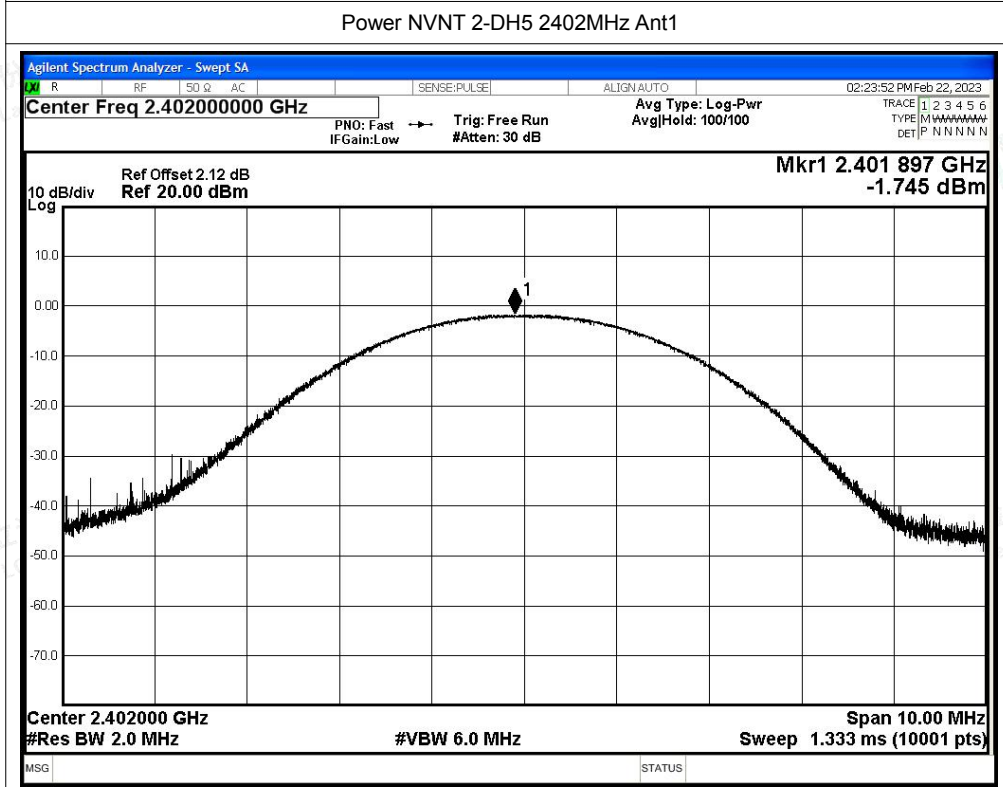
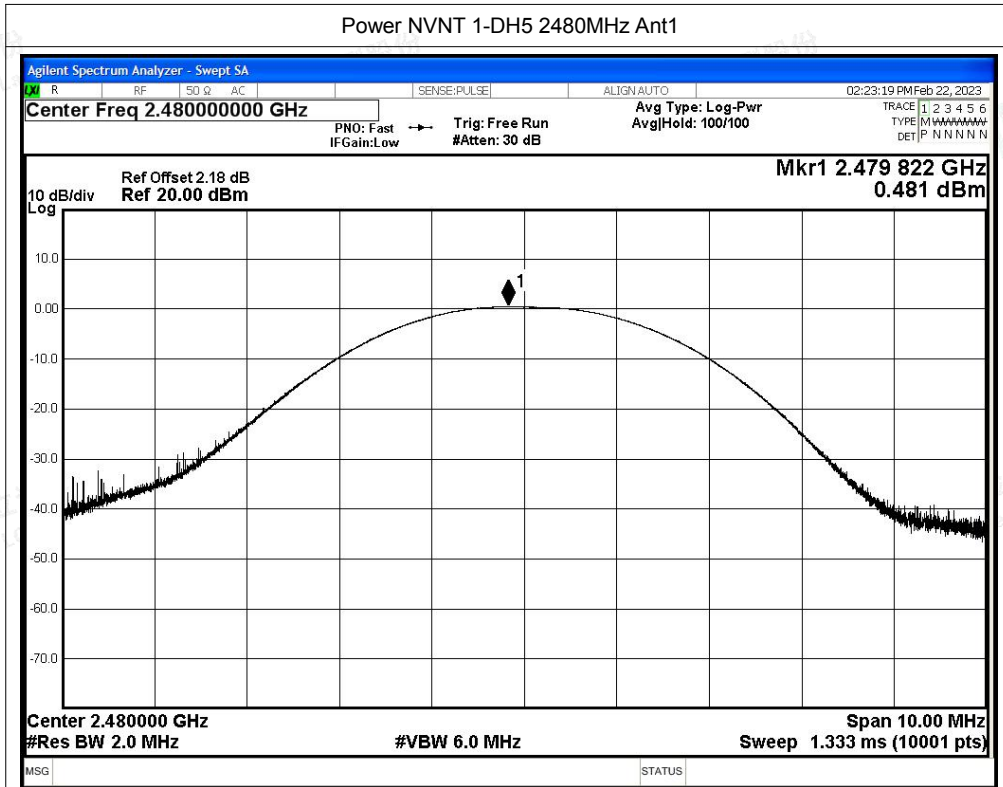
Test Graphs

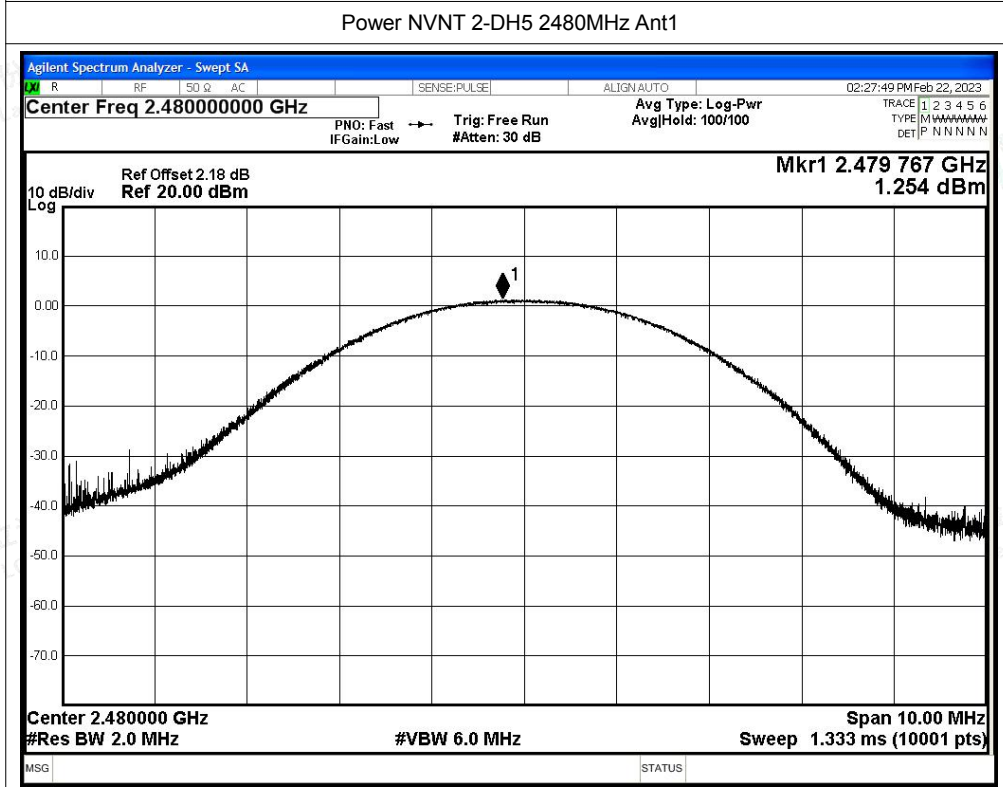
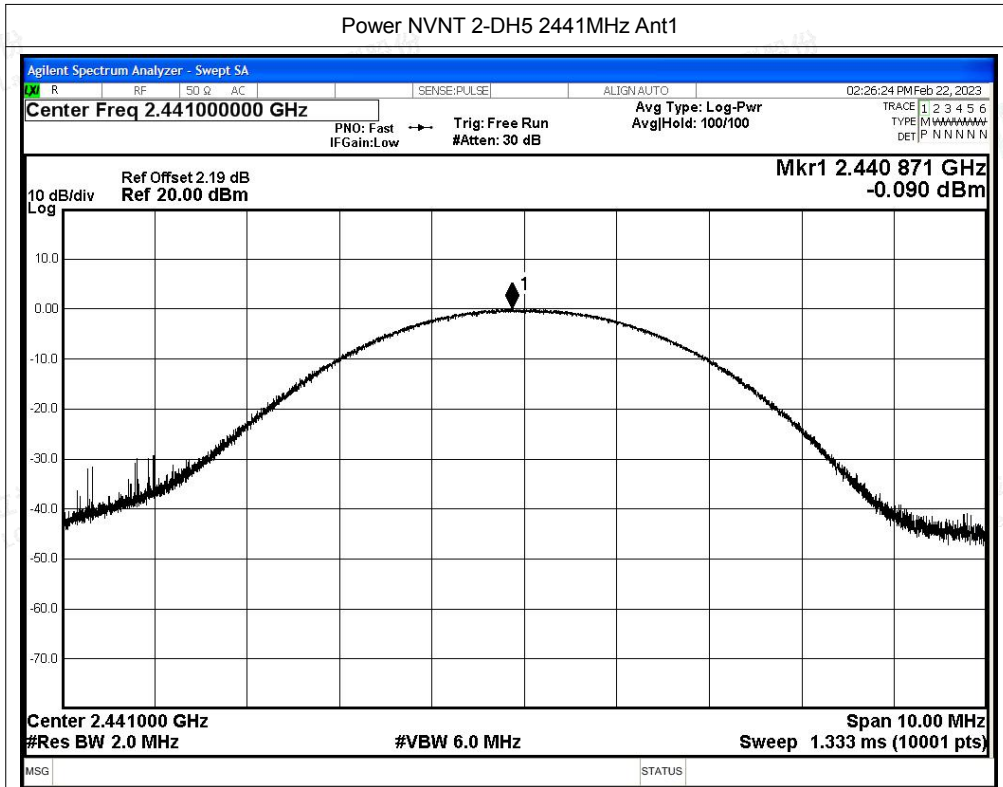
Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1









A.4 Carrier Frequencies Separation

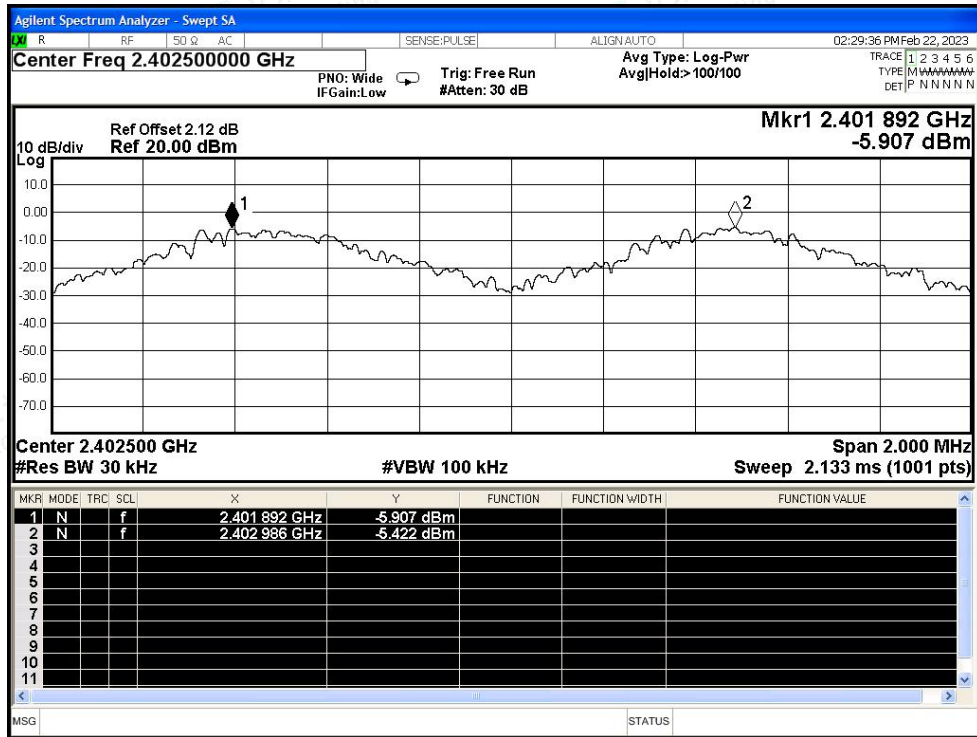
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.892	2402.986	1.094	0.631	Pass
NVNT	2-DH5	Ant1	2401.996	2402.99	0.994	0.875	Pass



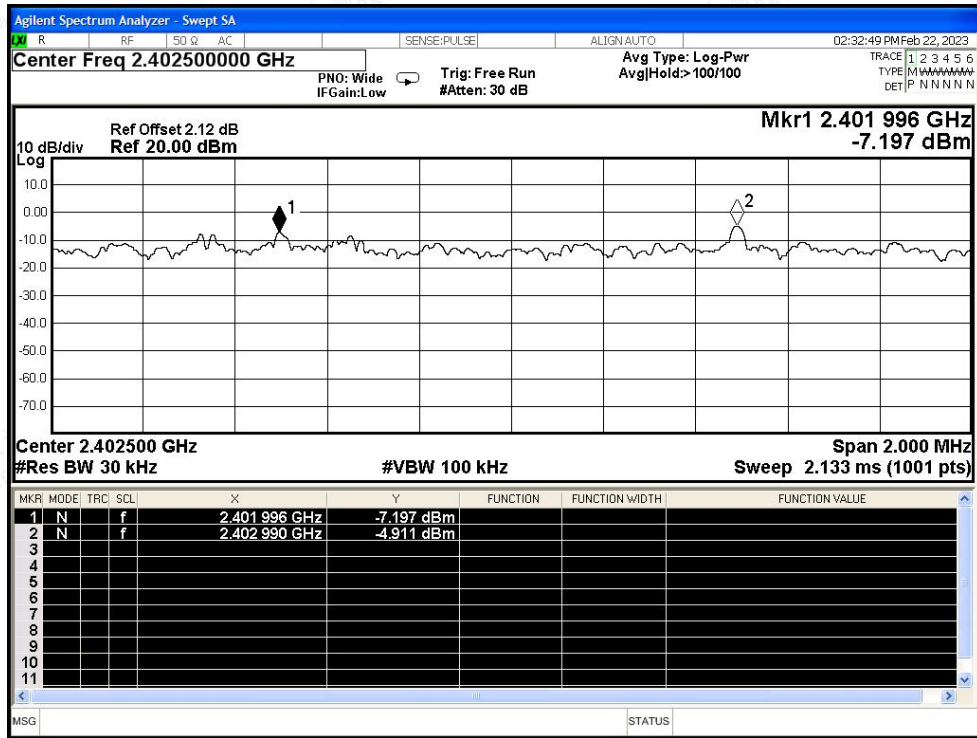


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





A.5 Dwell Time

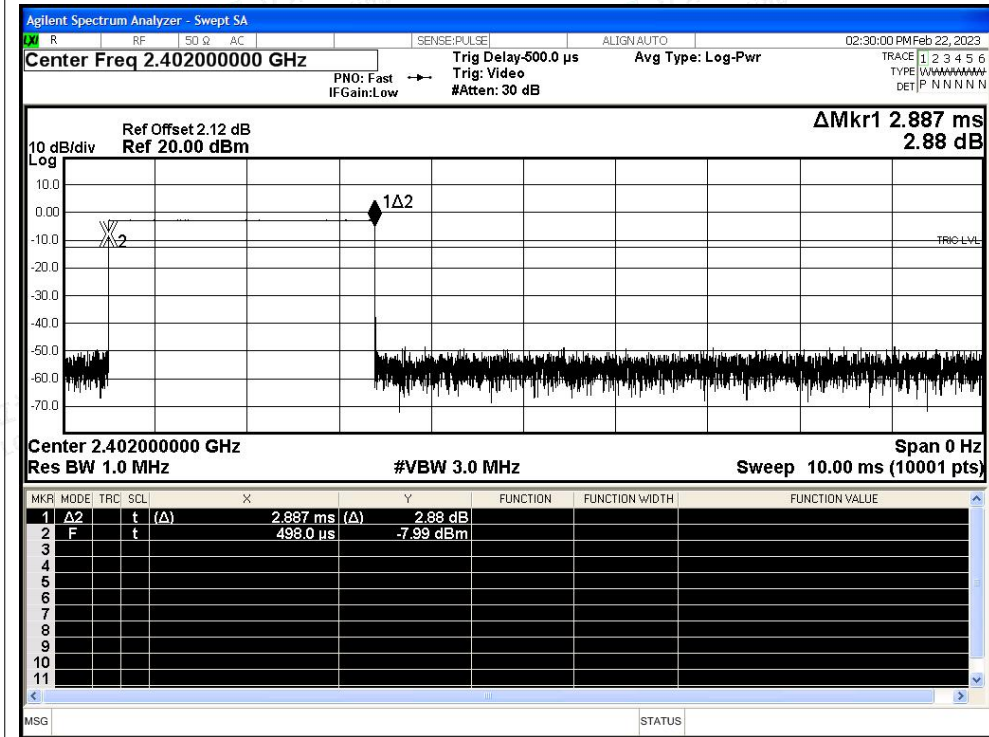
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.887	346.44	120	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.892	315.228	109	31600	400	Pass



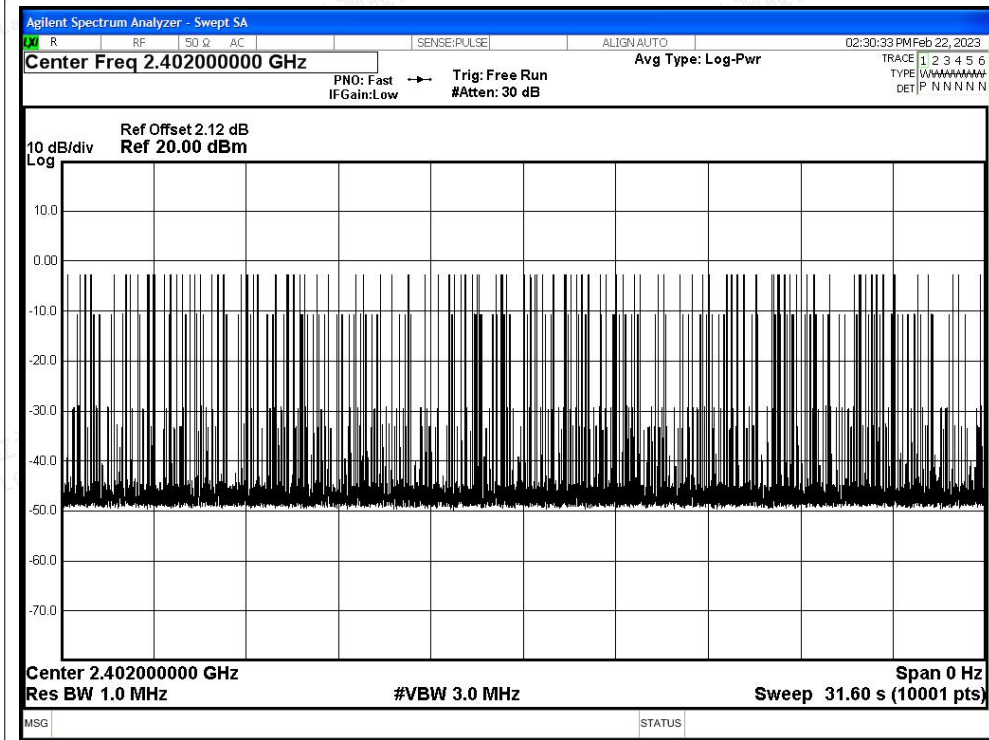


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

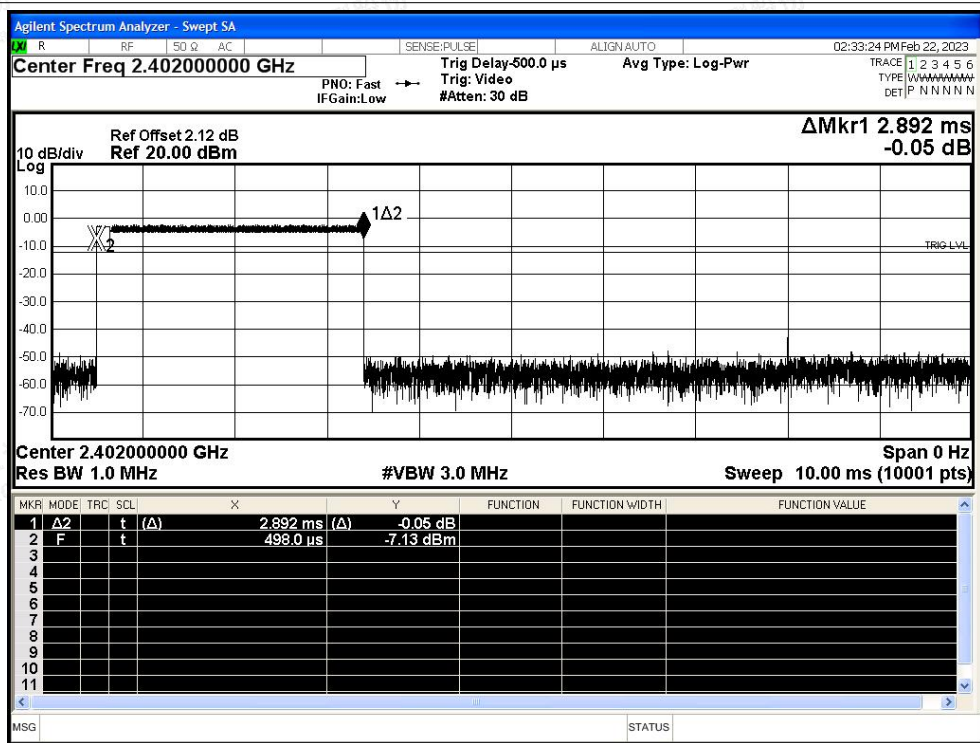


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

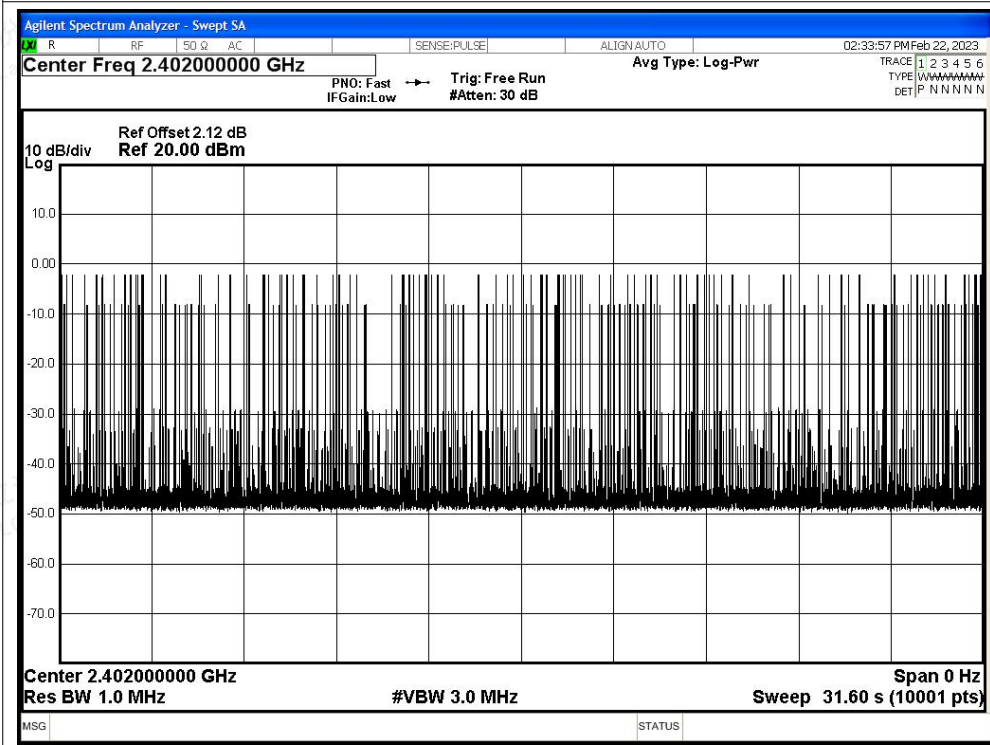




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.6 Number of Hopping Channel

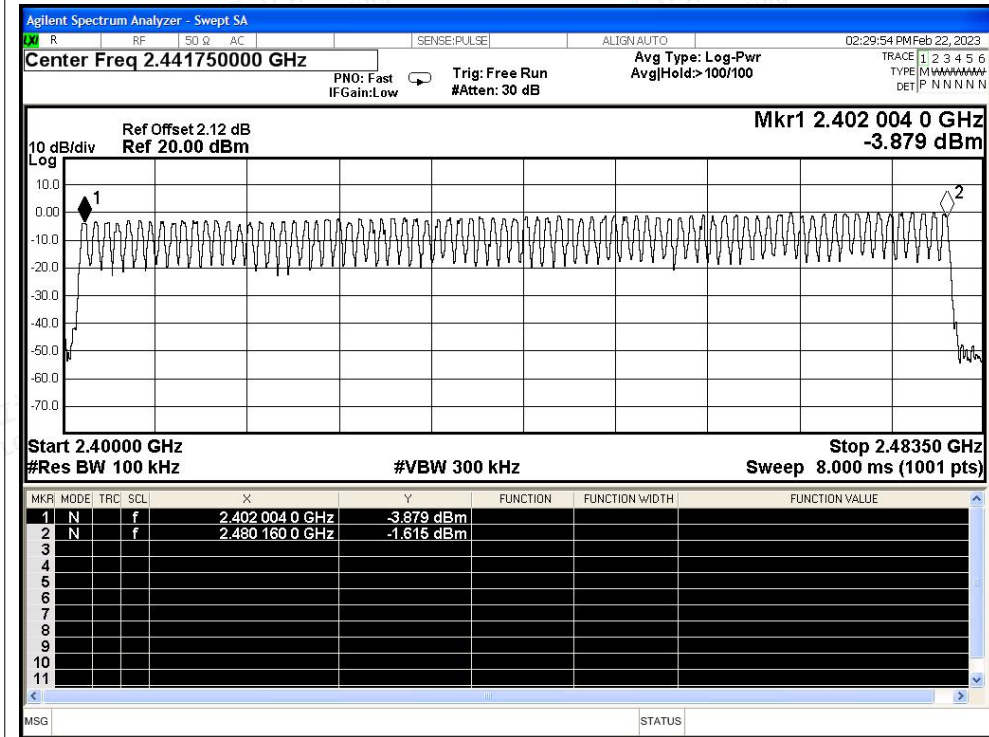
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



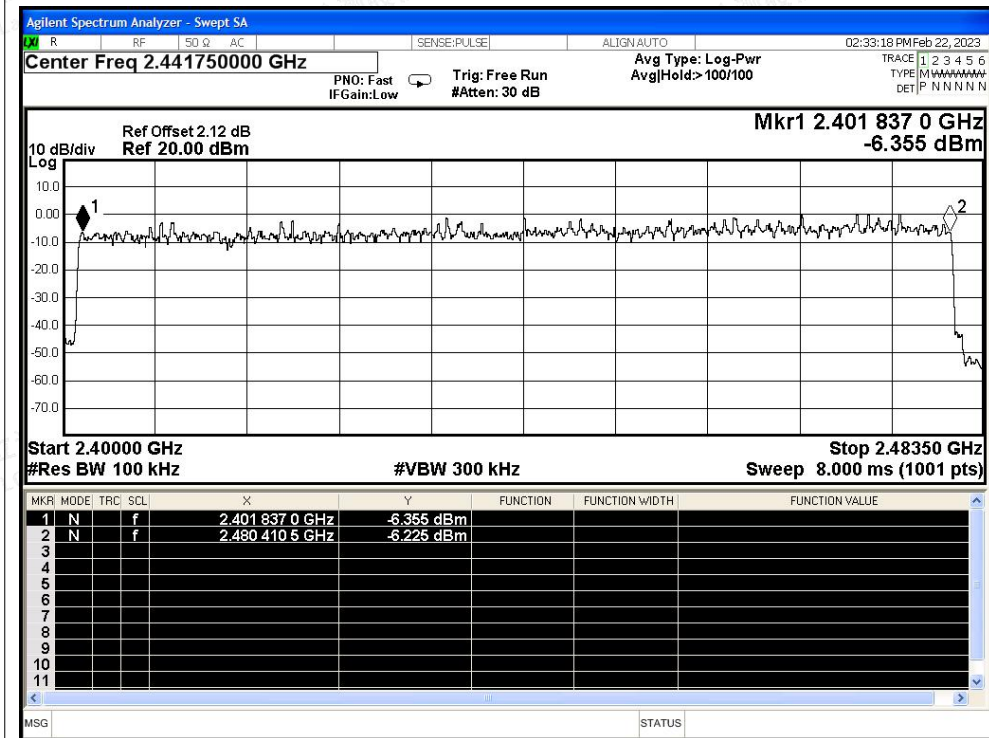


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.7 Band Edge

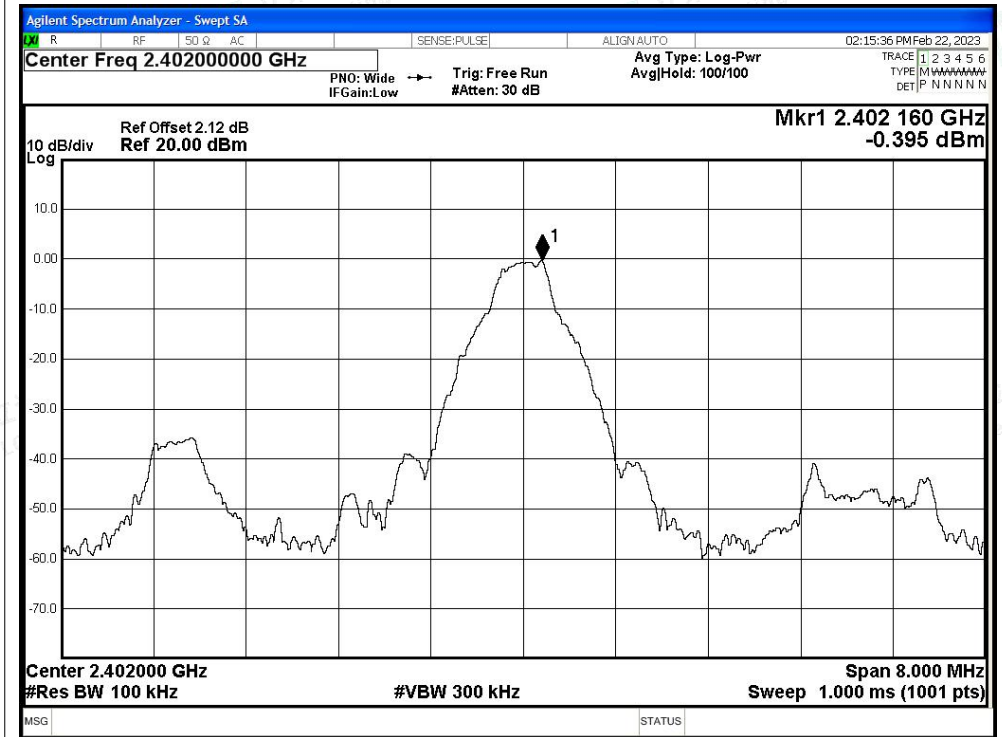
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-34.92	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-41.3	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-37.2	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.02	-20	Pass



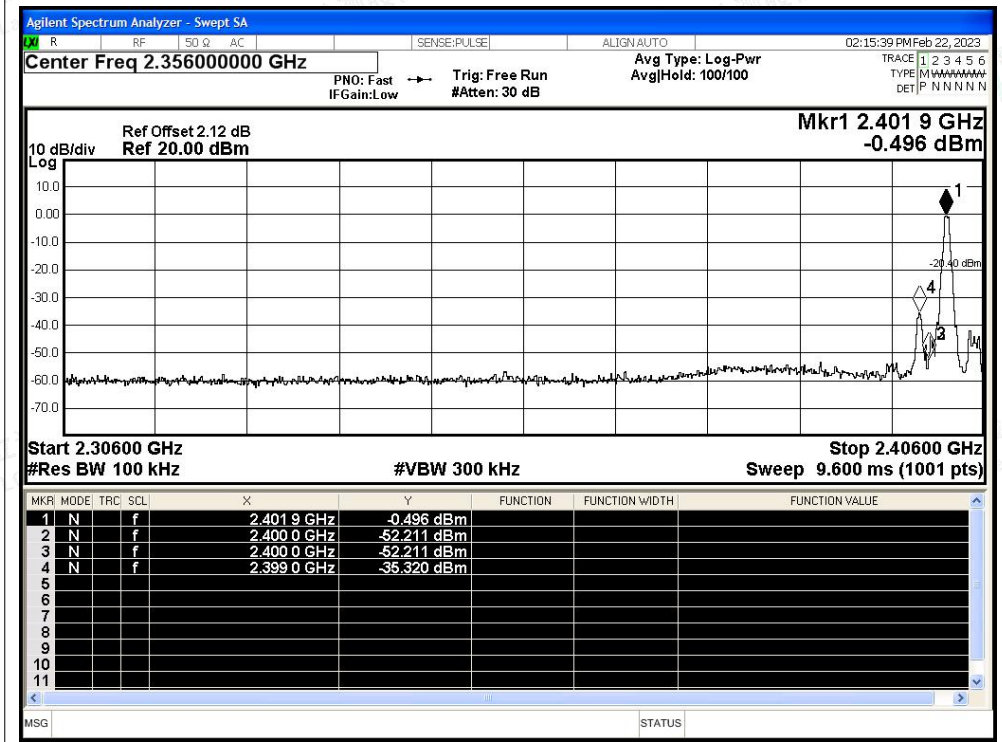


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

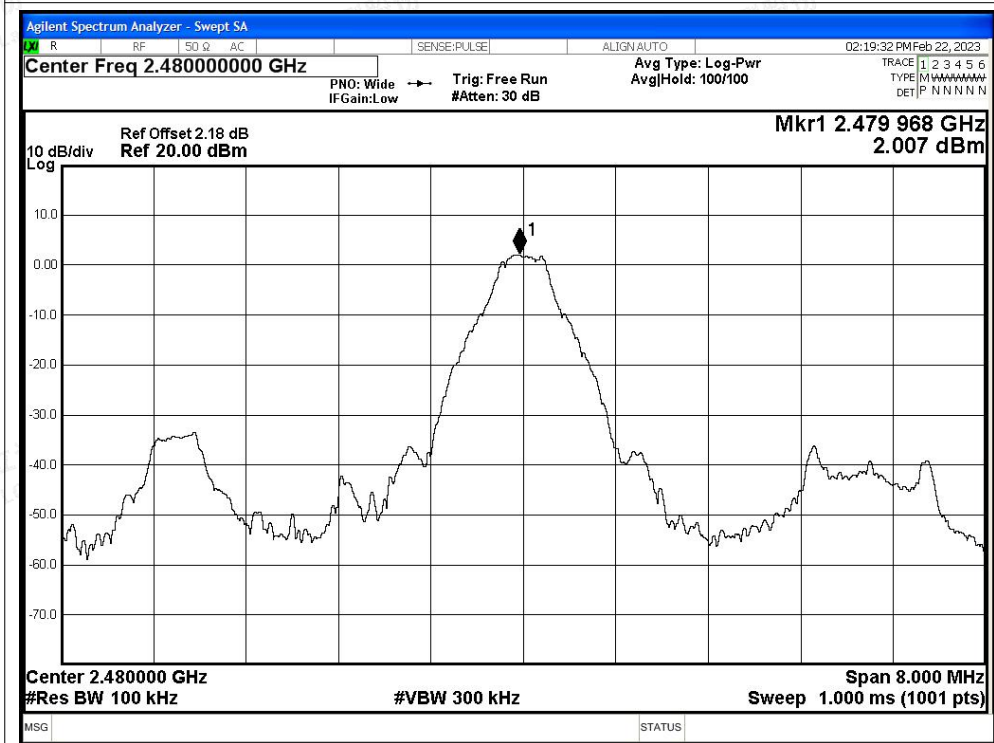


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

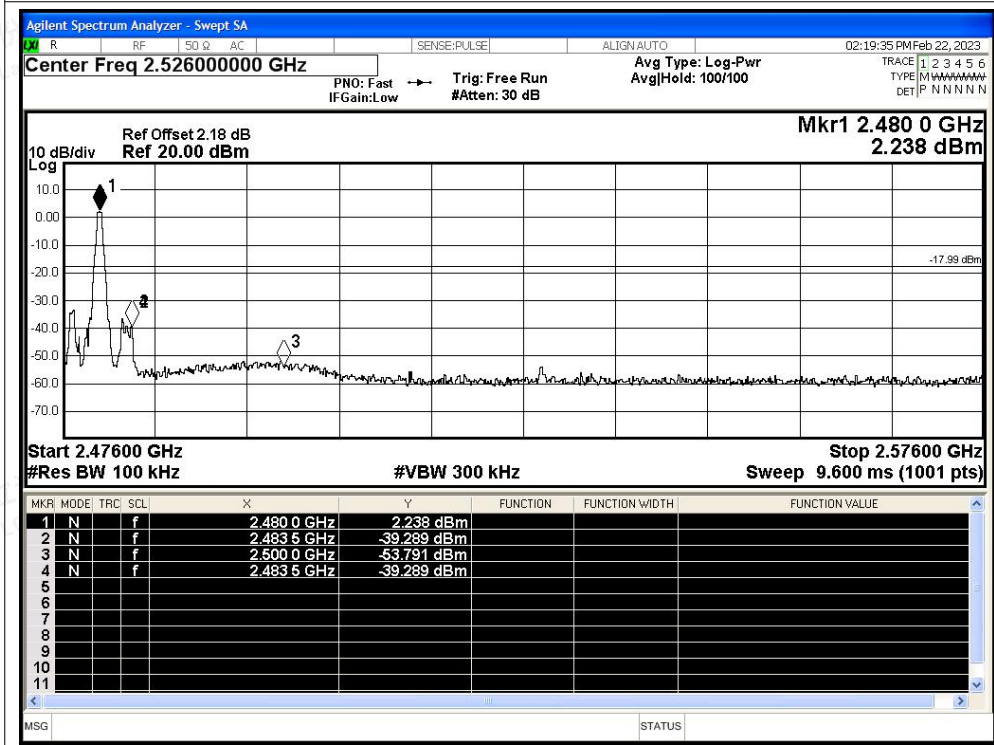




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

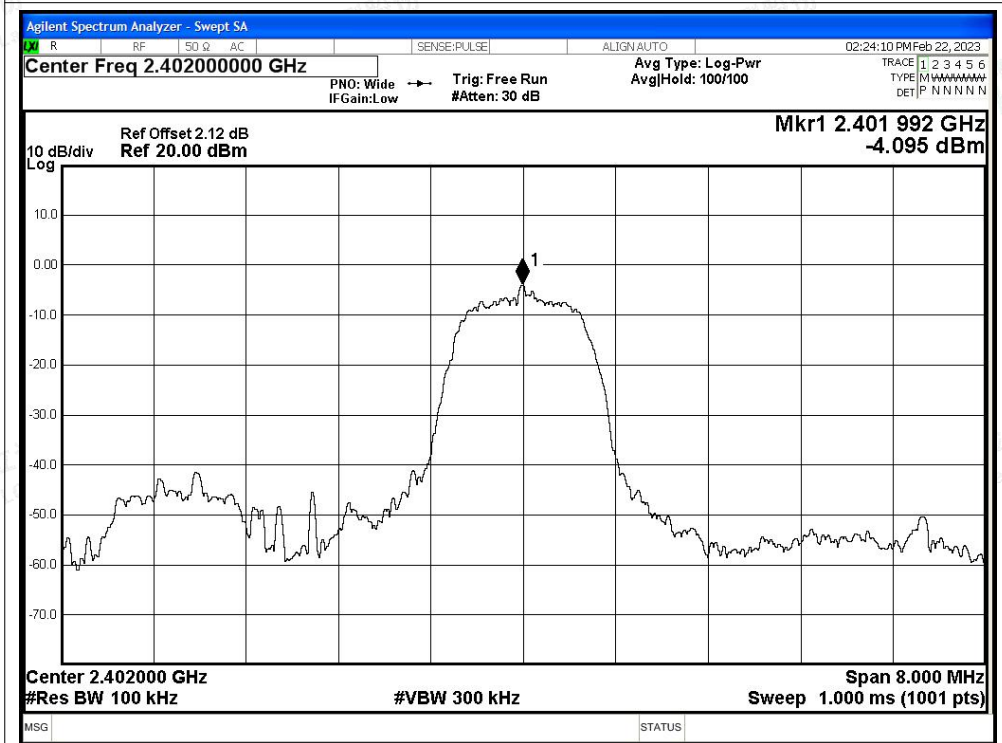


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

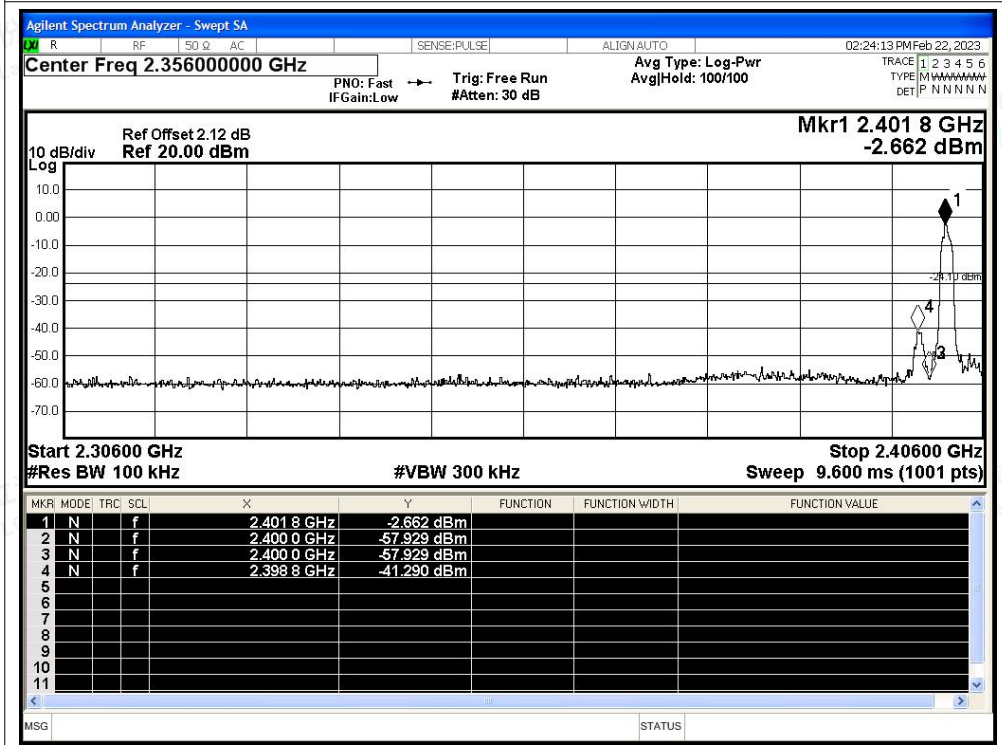




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

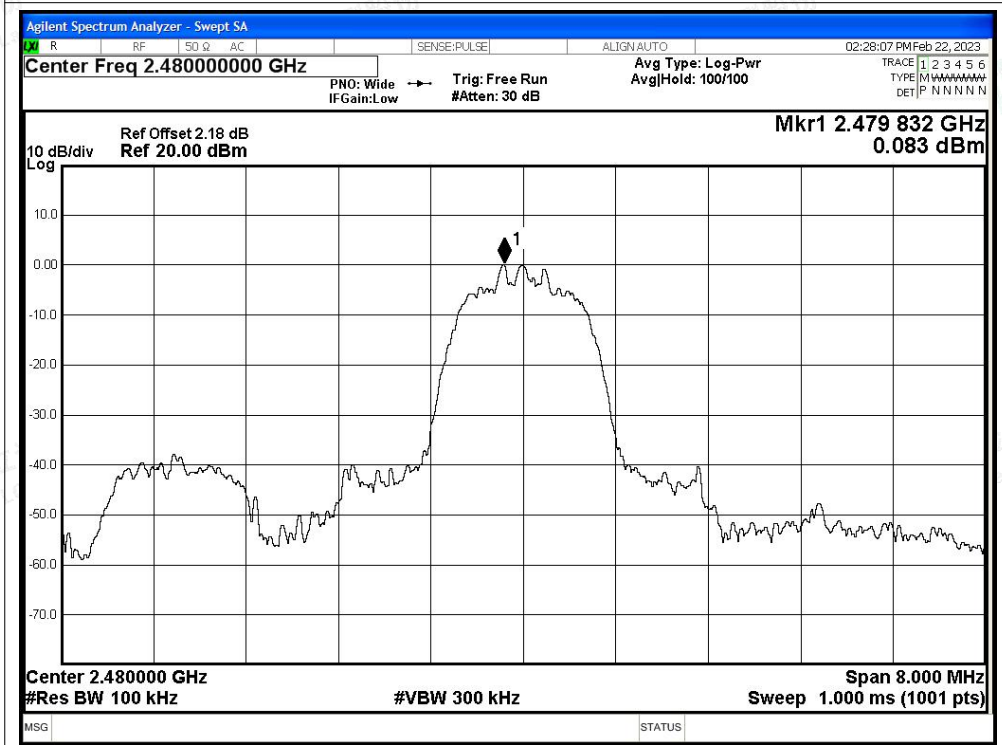


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission





Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

